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Ethylene		
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The ethylene market event everyone feared: explosion at Shell Oil's Norco, La. refinery	May 18	8	Georgia Gulf's Plaquemine, La. plant explosion disrupts phenol market	Feb 10	33	Fermentation	Biotech consortium sets its sights on fermentation	N	Mar 23	16
Partial restart frees up ethylene for Quantum	June 15	21	Hoechst Celanese starts to rebuild Pampa, Tex. plant	Feb 3	27		Eastman Kodak will build fermentation plant to produce biochemicals at Cedar Rapids, Iowa	N	Mar 9	14
Exxon and Chevron plan imports of liquid ethylene into the U.S. Gulf to alleviate shortages	June 22	36	Pacific Engineering and Production's rocket fuel plant wrecked by explosions and fire	May 11	5		Edible oil from bugs, not the evening primrose: Oil of Javanicus	N	Mar 16	94
Exxon will increase capacity	Feb 17	26	Shell Oil's Norco, La. refinery explosion: 'The ethylene market event' everyone feared	May 18	8		Fertilizer Institute — Eximbank decision to finance sale of phosphate mining equipment to Jordan being fought	N	Feb 3	40
Feedstocks see Petrochemicals — adjectives	Feb 3	12	Partial restart frees up ethylene for Quantum	June 15	21		Fertilizers			
Importing ethylene to where? Markets: Not enough ethylene around to go around	May 4	8	Explosives — Too much bang for the buck? (chart)	June 22	33		Brazil's Petrofertil gets public	N	June 15	31
Occidental Chemical studies debottlenecking ethylene capacity	Jan 29	76	Accidents sparked ANFO production	June 22	35		DSM, Kemira will swap plants	N	Mar 30	16
N Olefins outlook	Jan 20	59	Exports				Kemira puts negotiations with DSM on hold	N	May 18	58
Polyethylene makers keep a wary eye on rising ethylene prices (charts)	Mar 16	6	Adhesives and sealants: Stronger than ever — report (charts)	Mar 16	28		The drought's impact on fertilizer makers: negligible	N	June 29	76
Prices N June 6-36	June 15	21	Balance of trade	Apr 27	7		FI fighting Eximbank decision to finance sale of phosphate mining equipment to Jordan	N	Feb 3	40
Production	May 11	36	Chemicals buck the trade trend (chart)	June 8	8		Forecast 1988 (charts & tables)			
Quantum schedules a grass-roots ethylene unit at Deer Park, Tex.	Apr 27	5	First quarter: The signs are 'go' for chemicals (charts)	Feb 24	8		Part I: In the U.S., bright prospects overshadow uncertainties	N	Jan 6-13	34
Refinery gases: A quick source of ethylene (table)	May 11	16	The U.S. trade picture looks better than here (chart & table)	June 1	11		Forecast: A turnaround for ag chemicals	N	Feb 17	13
Union Carbide — ethylene and its derivatives from Chapter 2 of Petrochemicals: The Rise of an Industry by Peter H. Spitz	Jan 20	69	Brazil buys the private sector	June 29	20		Graces attempts to drop fertilizer units/W	N	Mar 23	15
A warning on ethylene capacity: DeWitt 1998 Petrochemical Review (tables)	Apr 6	8	Catalysts '88 report (charts & tables)	Jan 6-13	46		Grace sells a buyer for its Florida fertilizer plants	N	June 15	21
Ethylene Dichloride — OxyChem will build an EDC plant at Corpus Christi, Tex.	Feb 17	28	Custom code faces change	Feb 10	12		W Israel's Haifa Chemicals plans expansion	N	May 11	14
			Ethylene: A warning on ethylene capacity: (tables)	Apr 6	8		Multinational boost for plants: Fomig magnesium multiphase plant	N	Jan 27	34
			EC antidumping duties on U.S. exports expire	Mar 30	29		NP: Norsk Hydro turns sharply up	N	May 4	44
Ethylene Glycol			Europe lifts the barriers to an integrated market	June 1	52		Post-killing fertilizer for use on paddy rice	N	Feb 24	13
Chinese plant planned	Feb 17	59	Forecast 1988 (charts & tables)	Jan 6-13	34		Shipments: Strong first half for fertilizers	N	Jan 27	33
Ethylene-glycol-based solution automatically seals tire punctures	Jan 27	28	Part I: In the U.S., bright prospects overshadow uncertainties	Jan 27	20		Turkey rolls out a magic carpet of chemicals	N	May 11	21
OxyChem moves into EG with Cain's assets	Apr 27	9	Part II: Outside the U.S., strong domestic demand provides moderate growth	May 25	27		U.S. fertilizers makers continue on a roll	N	Apr 27	35
Recycling process for antifreeze	June 8	28	Italy: All roads lead to chemicals—report (chart)	Apr 13	50		U.S. fertilizer shipments continue to improve	N	Mar 30	32
Reclif is in sight for EO and EG producers: CMAI report	June 29	76	Japan: healthy gains for petrochemical exports	Mar 2	33		Fertilizers see also individual fertilizers, Ammonia; Nitrogen; Phosphate etc.			
Russian plant will be built by Toyo Engineering and Mitsui	Apr 6	55	Propylene rides high on a PP boom: The balance shifts in propylene trade (tables)	Apr 13	38		Fiber Optics			
			Saudi Arabian petrochemical exports pass EC ceilings	Mar 2	33		Optical perfluoropolymers	NP	May 4	44
Ethylene Oxide			Trade bill Congress will increase patent protection	Apr 6	66		Portable contaminants monitoring system	N	Mar 23	16
Chinese plant planned	Feb 17	59	The trade bill finds favor with the CPI	Apr 13	9		Fibers			
OSHA proposes a new limit on ethylene oxide	Feb 10	11	A trade bill that may get vetoed	Apr 27	48		Aramid fiber: U.K. ends embargo on Akzo's Twaron	N	Apr 20	5
OSHA sets new short-term oxide standard	Apr 13	50	Trade bill veto looms, work proceeds on an alternate	May 25	42		Aramid fibers dispute: Akzo wins a round in aramids over Du Pont	N	Apr 6	14
Prices	Mar 16	91	Chemical makers call for an adjusted trade bill	June 1	6		Du Pont and Akzo settle a patent fight	N	May 18	14
Reclif is in sight for EO and EG producers: CMAI Report	June 29	76	Mixed outlook for a new trade bill	June 15	42		Avco wins NASA contract for high-temperature composite fibers	N	Apr 9	14
Ethylene Propylene — Exxon expanding ethylene-propylene rubber operation at Baton Rouge	June 22	36	Turkey rolls out a magic carpet of chemicals	May 11	21		Carbon fibers: Key players vie for a base in U.S. carbon fibers (charts)	N	Apr 20	6
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Classic soda prices are soaring	Apr 27	17	Antitrust laws may replace antidumping laws	Mar 2	48		Part I: In the U.S., bright prospects overshadow uncertainties	N	Jan 6-13	34
CECIC chief, Günther Metz, outlines key aims	Feb 3	34	U.S.-Canada trade pact raises more hackles	May 25	42		India: Du Pont is proposing a timely passage to India (table)	N	Feb 3	32
Environment programs stay healthy	Mar 30	29	Approval of the Canadian trade pact moves nearer	May 25	42		Japanese fiber makers plan new plants: Toray plans polyester filament plant; Teijin plans pharmaceutical formulation plant	N	May 4	14
EC antidumping duties on U.S. exports expire	Mar 23	36	Extraction				PAN see Polyacrylonitrile	N	May 4	14
EC grants EVC exemption from EC competition rules	Mar 2	33	Aquatic's O ₂ extraction process: Getting oxygen out of air and water	May 4	16		Polyesters see Polypropylene	N	May 18	
EC inquiry alters NutraSweet contractsN	Mar 2	33	Supercritical Processing: A new entry in supercritical extraction	Feb 24	16		Shipments: Man-made fiber shipments stay steady	N	May 18	5
EC Saudi Arabian exports pass EC ceilings	Mar 2	33					Stork Brabant fiber technologies near market: thermobonding nonthermo-plastic fibers into nonwoven fabrics; transfer printing of natural fibers	N	Apr 20	37
EC withdraws South Korea's tariff advantages	Jan 6-13	49					U.S. man-made fiber shipments improveN	N	Apr 20	51
Europe lifts the barriers to an integrated market	June 1	52					Filters & Filtration			
MMA: Who cranks out MMA in Western Europe (table)	Jan 20	65					Air Products' filters that won't shed	NP	Mar 30	33
OECD meeting on handling of hazardous wastes: Chemicals want 'in' on OECD's Paris agenda	Feb 3	16					Battelle process will boost membrane permeation	N	Mar 16	94
OECD's prime target is accident prevention	Feb 17	21					Electrofilter cuts dust emissions	N	Mar 6	49
Ozone controversy	Feb 24	27					Hoechst Celanese will increase production of cellulose acetate tow used in cigarette filters	N	Feb 17	21
EC pushes for chlorofluorocarbons control under Montreal Protocol	Mar 20	29					Fatty Acids			
EC agrees in principle that the Vienna Convention and Montreal Protocol should be ratified	Mar 20	29					Edible oil from bugs, not the evening primrose: Oil of Javanicus	N	Mar 16	94
Plastics: APRIE notes plastics growth in Europe	June 8	17					TOFA prices	N	Apr 6	42
Polyester: EC sets duties on polyester imports	June 29	15					Tall oil fatty acids: U.S. naval stores get a boost (charts)	N	Feb 17	34
PET bottles: Will Coca-Cola beat Germany's PET barrier? PET bottle consumption in Western Europe (tables)	Mar 9	6					Tall oil product prices	N	Mar 2	43
PP tabs: A European puzzle (chart & table)	Mar 23	7					Federal Energy Regulatory Commission			
Styrene monomer likely to stay tight	Mar 23	32					Gas pipelines see no relief in FERC policy	N	Feb 17	66
Superconductors: European cooperation in superconductor development	Apr 6	49					Cryocooler denies bonuses for gas pipeline ducts	N	June 8	40
Waste disposal: The burning issue of waste in Europe	June 15	19					Supreme Court upholds natural gas competition	N	Apr 27	48
Wastes seek ways across borders: UN agreement on transboundary movement of hazardous waste is near	Feb 24	25					Why natural gas prices have been rising (table)	N	Jan 27	10
West European vinyl manufacturers unite	May 11	20					Federal Railroad Administration — Conrail gets low grades on handling hazmat (map)	N	Feb 17	6
Europe see also individual countries	May 11	20					Federal Trade Commission — Truck dereg is good for you, say FTC and ICC	N	June 1	70
European Council of Vinyl Manufacturers — Formed	May 11	20					Federation of American Societies for Experimental Biology — Combating cholesterol via enzyme research	N	June 1	42
Explosions							Federation of West German Chemical Employers — Japan's chemical workers were the world's highest paid in 1986	N	Jan 6-13	5
Brazil forced to import acrylates after Companhia Quimica Metacril explosion	Jan 6-13	49					study finds	N	Jan 6-13	5

Bayer's big U.S. investment breakdown for Bayer Group's 1987 sales (chart)	Apr 27	8	Norsk Hydro relaunches a stock offering	May 11	20	Encapsulated flame retardants for household paint	NP	Feb 24	35
Biotech consolidation: The key play in 1988? how biotechnology stocks have fared (table)	Feb 3	8	Norsk Hydro turns sharply up	Feb 24	13	Nylon film shuns sparks: flame-retardant packaging	NP	May 4	44
BioElectrica International enters financing agreement with a U.S. institutional investor	Feb 10	20	Occidental Petroleum's acquisition of Cain Chemical: How Cain Chemical will mesh with Occidental	Apr 27	9	Polyphosphazene fire-resistant polymer from Alchem	NP	June 22	16
Brazil buys the private sector	Feb 10	11	Occidental nets \$1.37 billion from a stock offering	June 22	5	Flavors & Flavoring — Crompton & Knowles merger agreement with Inghred Technology protested by International Molasses	NP	May 18	5
Brazil's Petrofertil goes public	June 15	31	Oil foresees earnings growth in 1988	May 25	5	Fluorocarbon — Korean joint venture for fluorocarbon production	NP	Feb 17	59
Cain Chemical builds a name in basic chemicals (table & map)	Mar 23	22	Outlook for 1988: A strong economy fuels an optimistic outlook for 1988	Jan 20	5	Fluoride — Mitsui, joint venture formed by EniChem and Mitsubishi	NP	June 1	25
Canada's chemical producers have a good quarter	June 1	25	Quantum Chemical: A new name, a new commitment to chemicals (chart)	Feb 10	28	Fluorocarbons			
Capital spending: Chemical makers boost capital spending (chart & table)	June 15	12	Quantum offers to buy back 3 million shares	Mar 16	5	Teflon: Du Pont celebrates R&D, past and future			
Capital spending: Chemical makers' capital spending plans surge (chart & table)	Mar 23	6	Quarterly financial review (charts & tables) Jan 27-38	May 4	18	Teflon toughs it out: Du Pont wins round in fight against alleged PTFE dumping (table)			
Capital spending: Chemical makers slate a 19.5% capital spending hike	June 8	5	Reckon fights to go private: takeover rumors prod the founder to buy back the beauty products firm	June 22	13	Fluoropolymers			
Capital spending: Optimism fuels U.S. capital spending plans (tables)	Jan 6-13	6	Reichhold maps strategy under new owners: interviews with C. Robert Powell and Thomas R. Mitchell	Feb 17	48	ICI combines its fluoropolymer businesses	NP	Mar 2	43
Capital spending: U.K. is bullish on capital spending	Mar 30	5	R&D spending: The CPI comes out a winner in the 1989 budget (table)	Feb 24	6	Optical perfluoropolymers	NP	May 4	44
Chemical industry's first quarter: The signs are 'go' for chemicals (charts)	June 8	8	R&D spending: Chemicals lead the R&D pack in Japan	Jan 6-13	8	Porous, fluoropolymer fabric: 'breathable' clothing made with Microfloc	NP	Feb 24	35
Chemical industry's leading indicator (chart & table) Feb 17-52, Mar 9-19, Apr 6-45, May 18-71	June 15	35	R&D spending: Congress boosts chemical research spending	Jan 6-13	64	Foam			
CW Management Advisory Panel survey: Upbeat prospects for chemicals in 1988 (charts)	Feb 3	22	R&D: Federal support for university R&D is flat	Jan 6-13	22	Converse's energy-returning shoe has a modified polyolefin foam midsole	NP	June 1	58
Chemical Week 300	Mar 2	26	R&D spending: Growth in U.S. R&D spending slows, says NSF	Feb 10	20	Foamed polymers toughen up their act: Sun's process produces microcellular foams			
The fourth quarter crowns a winning year (tables)	Apr 27	36	R&D spending: Industry will bolster U.S. R&D (chart & table)	Jan 6-13	7	Packagers will phase out CFC use in all disposable foam plastic products	NP	Apr 20	58
An eventful but upbeat year for the CPI (tables)	June 1	46	R&D spending: Retail R&D spending rises — slowly	Apr 13	34	SPC conference: Pumping up structural foams			
CPI sales and earnings are off to a fast start (first-quarter 1988) (tables)	Apr 6	55	R&D spending: Slower R&D spending boosts for the top companies	June 15	17	Food			
Ciba-Geigy launches an investment program in Brazil	Jan 6-13	49	R&D spending: Slowing inflation curbs a jump in CPI R&D budgets (CW survey, company-by-company) (tables)	June 22	26	Edible coating made with carrageenan extends storage life of frozen precooked meat, poultry and fish	NP	Mar 30	43
DSM investment plans	May 18	44	Robins, A.H.: Dalkon claimants urged to reject a Chapter 11 plan	May 11	5	Freeze drying stirs new interest			
Deferred tax reporting: Tallying the new accounting rules — FASB rules	May 25	35	SABIC's sales and earnings 1987	Mar 9	38	Irradiation: Bans are stunning growth of irradiation			
Dividends: A good year yields bountiful dividends (table)	Apr 20	5	Sales and earnings	Jan 27	5	NutraSweet develops a fat substitute	NP	Feb 3	19
Dow Chemical boosts funds for global R&D	May 11	5	Fourth-quarter earnings look lustreous	Feb 3	6	Pesticide Alert stirs up debate on fresh produce			
Dow Chemical's stake in Montedison exceeds 2%	May 18	12	Fourth-quarter earnings: Hefty gains for the CPI (table)	Feb 10	14	Food additives			
Dow beefs up its stake in Montedison	May 18	12	Strong fourth-quarter reports continue	Feb 10	14	Arco seeks a European patent for its fat substitute	NP	Mar 16	94
Dow's disclaimer only fuels Italian concern	May 18	12	Canadian earnings rise sharply	Mar 2	5	NutraSweet develops a fat substitute	NP	Feb 3	19
Dow's shareholders hear about 'gold medal' year	May 18	5	Fourth quarter: More fourth-quarter, full-year U.S. earnings — and earnings reports from outside the U.S.	Apr 27	5	Oxyrase's novel antioxidant targets food preservation			
Eastman Kodak raises \$1.1 billion in a debt offering	Mar 9	5	Early first-quarter reports set record	May 4	6	Food & Drug Administration			
Eastman Kodak gets \$400 million from another debt issue	Apr 20	5	An exuberant first quarter for chemical earnings (table)	May 11	14	Drugs: 1987 new drug approvals: FDA gets good marks from PMA (table)			
Eastman Kodak will raise capital expenditures 9%	Jan 27	5	Record first-quarter showings become commonplace (table)	May 11	8	Federal government can be sued on charge that FDA negligently licensed tainted vaccine for sale	NP	June 22	40
Engelhardt puts two businesses up for sale	Feb 10	5	Shooting the rapids of change, John Harvey-Jones — Other views (excerpted from his book <i>Waterloo It Happen</i>)	Feb 24	3	FDA regulations, standards etc. see under specific products			
EniChem puts its chips on R&D, joint ventures	Mar 9	9	Other views	Mar 2	3	Formaldehyde			
Executive compensation: Top pay for top brass (charts & tables)	May 11	22	Sterling comes out a winner	Mar 30	20	Formaldehyde regs stir suits			
Federal budget: The CPI comes out a winner in the 1989 budget (table)	Feb 24	6	Stocks: How chemicals are rolling with the Oct. 19 punch (table)	Jan 27	6	Prices N Feb 10-33, N Mar 16-91, N May 4-17			
Federal budget: EPA grids for funding cuts	Feb 3	15	Stocks: Tokyo's exchange lures U.S. chemical listing	Apr 6	46	Formaldehyde Institute — Formaldehyde regs stir suits			
Forecast 1988 (charts & tables)	Jan 6-13	34	UC plans to cut dividends and add shares	May 25	5	France			
Part I: In the U.S., bright prospects overshadow uncertainties	Jan 27	20	UCB moves to protect itself against raiders	June 29	12	L'Air Liquide and Du Pont plan separations joint venture	NP	Feb 10	5
Part II: Outside the U.S., strong domestic demand provides moderate growth	Feb 3	5	Venta Chemical: backed by Fuchsleins	May 18	50	Arco's POTBA plant beats a deadline	NP	June 8	16
From soap to nuts with SDA at Boca — Viewpoint	Feb 10	3	Vista Chemical: Adding value in the PVC market	Apr 6	62	Alchem launches polymers and powders	NP	June 22	16
Grace's capital spending plans for 1988 are up	May 18	5	Vista adopting "Shareholder Rights Plans" to make unsolicited takeovers more difficult	June 8	16	Cof Chimie's chemicals sector reorganized and renamed, Norsolor	NP	Jan 6-13	49
Henkel launches a consolidation drive	Mar 23	9	Vista Chemical files secondary public offering	Mar 23	5	Drug R&D suffers from prices	NP	Jan 20	16
Hercules' capital spending program: resin and resin businesses revamped	May 11	5	Wacker details changes (table)	June 22	8	Elf Aquitaine gets new director of chemicals, Jacques Puéchal	NP	Mar 16	72
Hoechst Celanese merger does well (chart)	Mar 23	14	West Germany: The home market loses to the U.S. — report (charts & tables)	June 15	22	Exxon will increase ethylene capacity	NP	Feb 17	28
IMC Fertilizer Group goes to the stock market	Feb 3	5	Profits improves in 1987 for most German majors, despite a so-so year for sales (table)	June 15	23	Fluorinated gases venture with Comurvis	NP	May 25	27
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Montedison sells assets to settle debt	May 25	25	Kemira's acquisitions boost result	Mar 16	72	Oxochime, oxo alcohols joint venture, to be modernized	NP	May 25	27
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Report on hazardous waste sites: Florio to EPA — Step up cleanup
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Corn insecticide heads for the fields
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Engineered microbe is monitored in soil: Clemson U. testing Monsanto's *P. fluorescens*
International working group: An easier road for biotech field tests
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Mobil completes purchase of Aristech's olefins plant	N	Jan 6-13	5	Kemira acquires paints units	N	Feb 10	14	Facing the future in light of the past	Feb 3	3
Outlook: A bullish outlook for olefins worldwide	N	Jan 20	59	Plastic media blasting: A nonionic way to strip paints	N	May 11	17	Portugal's petrochemicals head for the private sector	Apr 13	43
Production jumps	N	Feb 17	28	VOC emission violators face harsh penalties	N	May 25	17	Quantum Chemical: A new name, a new commitment to chemicals (chart)	Feb 10	28
Shell expands SHOP plant at Stanlow Refinery	N	Mar 23	32	Panama — Trans-Panama Pipeline: payment of electricity bill to state-owned utility poses threat to pipeline	N	Apr 20	58	Russia will get two more petrochemical complexes	June 8	5
Standard Oil Company (N.J.) — hydrogenation, olefins, and aromatics: excerpts from Chapter 2 of Petrochemicals: The Rise of an Industry by Peter H. Spitz	N	Jan 20	75	Paper see Pulp & Paper	N	May 11	36	Russian petrochemical complex gets green light	Mar 23	5
U.S. olefins makers squeeze out more product	N	Feb 10	28	Petents				Saudi Arabian exports pass EC ceilings	Mar 2	33
Olechemicals — Quantum Chemical: A new name, a new commitment to chemicals (chart)	N	Feb 10	28	Air Products files lawsuit against Orange County, N.C. for using waste-water treatment technology without a license	N	Feb 10	12	Spain may restructure refiners	Mar 23	15
Optoelectronics				Animals: Made-to-order animals win patent approval: Harvard's mouse gets first U.S. patent for an animal	N	Apr 20	15	Turkey rolls out a magic carpet of chemicals	Mar 30	20
Asahi's optical disc plant	N	Jan 27	33	Aramid fibers dispute: Akzo wins a round in aramids over Du Pont	N	Apr 6	14	Petrochemicals: The Rise of an Industry. Peter H. Spitz (book)	May 11	21
Erasable optical disc	NP	Jan 1	58	Du Pont and Akzo settle a patent fight	N	Apr 6	14	Petrochemicals: Second to none — Viewpoint	Jan 20	3
French development in nonlinear optical materials	N	Jan 6-13	22	Arco seeks a European patent for its fat substitute	N	May 18	14	Petrochemicals: The Rise of an Industry. Peter H. Spitz (excerpt from Chapter 2) — Letter	Jan 20	68
Oregon State University — Knapp at Boca (II) — Viewpoint	N	Feb 17	3	Biotech patent track may be too fast	N	Mar 16	94	Petrochemicals: A hall of fame — Viewpoint	Jan 27	3
Organic Chemicals				Du Pont and Allied-Signal settle patent suits	N	June 8	40	— Letter	Feb 24	2
Hercules Chemicals starts to rebuild Parappa, Tex. plant	N	Feb 3	27	Exxon prohibited from selling some lubricants that Lubrizol alleges infringe on its patent	N	Jan 6-13	5	Facing the future in light of the past — Viewpoint	Feb 3	3
Organic chemical output data goes electronic: U.S. International Trade Commission statistics	N	Feb 24	36	Genetic patent for an industrial enzyme, subtilisin	N	June 29	5	Petroleum		
Other Views				Interleukin-2: Celus and Amgen settle patent dispute	N	June 15	17	Additives: Rohm and Haas will make and sell Sanyo petroleum additives	Mar 30	32
Harvey Jones, John: Shooting the rapids change (excerpted from his book <i>Making It Happen</i>)	N	Feb 24	3	ITC will take up process patent issue involving Amgen and Chugai and EPO	N	Apr 13	5	Catalysts '88: Restructuring for technical clout — report (charts & tables)	June 29	20
Concepts of Waterloo won't do	N	Mar 2	3	Monsanto-ICI patent accord on glyphosate opens up opportunities for herbicides	N	Feb 24	40	Chromatographic analysis for crude oil: Consumption: Will higher oil consumption mean a gasoline tax?	June 15	17
Kennedy, Robert D.: A call for commitment to "Responsible Care"	N	May 4	3	Praxy costs the U.S. \$61 billion annually	N	Apr 13	5	Drilling wastes: EPA eases regulation of oil and gas drilling wastes	May 11	40
Oxygen				Process patent holders get new allies: Lawyers	N	Mar 9	40	Forecast 1988 (charts & tables)	Jan 6-13	64
Air Products introduces ultra-high purity oxygen	N	Feb 3	27	TPA: Genentech wins a U.S. patent for Activase	N	Feb 17	66	Part I: In the U.S., bright prospects overshadow uncertainties	Jan 6-13	34
Air Products sending oxygen to Dow	N	Jan 27	18	TPA patents: Genentech files a suit against Abbott Laboratories over two TPA patents	N	June 29	9	Imports: Oil and chemical views don't mix on import surge (chart)	Apr 27	6
Aquaticatics's O_2 extraction process: Getting oxygen out of air and water	N	May 4	16	Trade bill: Congress will increase patent protection	N	Mar 30	12	Imports will rise, but prices won't, DOE says	May 18	78
Dow-BOC joint venture in air separation	N	May 18	5	The trade bill finds favor with the CP	N	Apr 6	66	Offshore		
Ozone				Periclin — Saimco receives license from Saudi Arabia	N	Apr 13	9	Bush wants to delay California leasing	June 15	42
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Ozone controversy	N	Jan 6-13	64	Pentaerythritol — Prices	N	June 8	17	Overseas investment in U.S. refining industry grows	Apr 27	35
Congress delays decision on ozone until Aug.	N	Jan 27	48	Pentaerythritol Tetraacetates: Too much bang for the buck? (chart)	N	Mar 16	91	Pipeline: Trans-Panama Pipeline's payment of electricity bill to state-owned utility poses threat to pipeline	Apr 20	58
L.A.'s ozone and carbon monoxide air quality plans disapproved by EPA	N	Feb 24	27	Peptides — Japanese research center for peptides and proteins research	N	June 22	33	Prices: DOE sees oil prices rising slowly, but not far	Feb 17	66
Montreal Protocol: EC pushes for chlorofluorocarbons control	N	Mar 23	40	Permeation — Battelle process will boost membrane permeation	N	Jan 27	33	Prices: Oil prices will be flat, and U.S. imports will rise	Jan 27	41
Du Pont urged to "abide" by a promise to halt CFC production by Senators	N	Mar 30	29	Personal-care Products — Kao of Japan buys Andrew Jergens	N	Mar 16	94	Reserves: USGS' estimates on hydrocarbon reserves challenged	Feb 24	36
Montreal Protocol ratified by Senate	N	Apr 6	7	Petrochemicals				Spills	Mar 16	102
Progress in moves to ban CFC use	N	Apr 13	50	Ames acquires a stake in Brazilian petrochemicals	N	Apr 27	5	Ashland oil spill: After the Ashland spill, more regulations?	Jan 6-13	19
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How long a farewell to CFC production	N	May 11	40	Asociacion Petroquimica Latinoamericana: APLA calls Oxiqum's Kunstmann	N	Apr 6	53	An oil spill may spur new storage rules	Feb 3	28
Montreal Protocol signed by Reagan	N	May 11	40	Brazil buoy the private sector	N	Apr 6	52	GTA's Elastol, a polymer that separates oil from water, for oil-spill cleanups	Apr 20	53
Dow will drop fully halogenated chlorofluorocarbons	N	May 11	40	China slates new projects	N	June 1	11	Taxes: oil industry campaigns to win tax incentives, basing its case on U.S.-Canada trade pact	Mar 2	48
Urban air pollution: ozone pollution is up	N	May 11	40	EniChem conducts petrochemical feasibility study for China	N	Feb 10	5	Pharmaceutical Manufacturers Assn.		
P				The ethylene market event everyone feared: explosion at Shell Oil's Norro, La. refinery	N	June 15	31	AIDS vaccines in research and development (table)	June 29	87
Packaging				Feedstocks	N	May 18	8	FDA gets good marks from PMA: 1987 new drug approvals (table)	Jan 20	6
Accutane Pak warns of birth defects	N	May 4	13	Brazil is hungry for ethylene: phaseout of alcohol subsidy boosts naphtha-derived feedstock	N	May 25	8	Phenol		
CFC use in all disposable foam plastic products will be phased out	N	Apr 20	58	Lower oil sales liquid boost chemicals (chart & table)	N	Jan 27	41	Capacity use: Up and coming (chart)	June 15	9
Du Pont's Electronics Dept. acquires Honeywell's TFMIL rights for micro-electronic packaging	N	Feb 17	13	Solvay secures feedstock supplies for Sarria	N	Apr 27	29	Market: The spot phenol market heats up... as production problems disrupt the U.S. market	Feb 10	33
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Packaging film sales are expected to soar	N	Feb 3	27	Imports: Oil and chemical views don't mix on import surge (chart)	N	Mar 2	33	Grace finds a buyer for its Florida fertilizer plants	June 15	21
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Paint				Monsanto will divest Australian petrochemicals	N	Mar 9	5	Phosphoric Acid — Olin forms joint venture with Albright & Wilson and Texasgulf	Apr 27	5
Auto alloys bond with paint	NP	June 1	58							
Automotive paints: ICI and Nippon join paint forces	N	Mar 30	10							
Du Pont's auto finish lab is 'state of the art'	N	Feb 17	14							

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Honam Oil Refinery's PP plant in Korea, using Unipol process, has smooth startup. . . . N
 Huntsman will expand in polypropylene. N
 Japan's strategy: Close ranks, expand (table). . . . N
 OPP film capacity in Britain will be increased by UCB. . . . N
 Oriented PP film prices. . . . N
 Prices N Mar 9-26, N Apr 13-25. . . . N
 Propylene rides high on a PP boom (table). . . . N
 Solvay's Korean joint venture to produce wood-fiber-filled polypropylene sheet. N
 South African Sasol gives contracts to Lurgi and BASF for PP plant. . . . N
 South Korean plant to be built by Lummus. . . . W
 Polypropylene Glycol — Prices. . . . N

Polystyrene

Brazilian styrene and PS venture gets a green light. . . . N
 Dainippon will use a new process for PS. . . . N
 Degradable plastics joint venture. . . . N
 Fine will expand its PS capacity at Canville, La. plant. . . . N
 France's Norsolor plans polystyrene plant. . . . N
 Hungarian joint venture. . . . N
 Korea: new PS producer in South Korea. . . . N
 Polysar plans PS expansion at Decatur, Ala. plant. . . . N
 Polysar will increase its polystyrene capacity. . . . N
 Prices N Mar 9-26, N Apr 13-25. . . . N
 SABIC's polystyrene unit at Al-Jubail is up and running. . . . N
 Polytechnic Institute — Altered polymer rotates light. . . . N
 Polytechnic University — Polymer research centers: Can U.S. polymer research keep up? (table). . . . N
 Polytetrafluoroethylene — Teflon toughs it out: Du Pont wins round in light against alleged PTFE dumping (table). . . . N

Polyurethane

Blood vessels of copolyurethane: Small synthetic blood vessels enter human trials. . . . N
 PSC conference: Pumping up structural foams. . . . N

Polyvinyl Butyral

Brazilian PVB plants planned by Monsanto and Du Pont. . . . N
 Du Pont's Butacite sheets protect stained glass windows. . . . NP

Polyvinyl Chloride

ECV granted exemption from EC competition rules. . . . N
 Heat-resistant PVC alloys aim for the business machine market: A place for PVC in computers? . . . N
 Oxy's board ok's PVC and HDPE expansion plans. . . . N
 Oxy signs pact with China for PVC paste resin plant. . . . W
 Thailand joint venture. . . . N
 Vista Chemical: Adding value in the PVC market. . . . N
 Vista and Compression Polymers form joint venture, Vycom. . . . N
 West European vinyl manufacturers unite. . . . N
 Polyvinylidene Fluoride — Penwalt promotes PVDF in Brazil. . . . N
 Portugal — Petrochemicals head for the private sector. . . . N
 Poses, Frederic, M., president of Allied-Signal's Engineers Materials unit: Allied-Signal's "new-generation leader". . . . N
 Potassium Carbonate — Armand capitalizes on differences. . . . N
 Potassium Permanganate — EC imposes antidumping duty on Chinese imports. . . . N

Powders

Aluminum nitride fine ceramic powders from Altech. . . . N
 Superconductor: powdered ceramic material from Grace. . . . N
 Preservation — Freeze drying stills new interest. . . . N
 Preservatives, Food — Oxyrase's novel antioxidant targets food preservation. . . . N
 Price, David B., Jr., Monsanto's Specialty Chemicals Div.'s v.p. and general manager: Monsanto's Price takes challenges in stride. . . . N
 Prices — Supreme Court okays cutting off discounts. . . . N
 Prices see specific chemical, commodity, etc. . . . N

Printers & Printing

Grace acquires worldwide graphic arts division of Uniroyal Plastics. . . . W

Polymer thick-film inks: New, versatile inks will cut electronics costs. . . . N
 Transient printing of natural fibers: Shook Brabant technology. . . . N
 Process Equipment — AICHEMA: A big show reflects a healthy climate. . . . N

Product Development

Air Products launches a lab for product development at Pace, Fla. complex. W
 Little, Arthur D. forms a product development center. . . . N
 SDI high-tech spinoffs. . . . N

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Tort reform does not spell relief (map). . . . N
 Tort reform: Product liability reform moves, but just one step. . . . N
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 Chemical industry's first quarter: The signs are 'go' for chemicals (charts). . . . N
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 Japan and U.K. lead in production gains. . . . N
 Monthly production reports (charts). . . . N
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 Organic chemical output data goes electronic. . . . N
 Quarterly chemical output report (table). . . . N
 Jan 6-13 — 30, (Correction Feb 24-15). . . . N
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Linde and BASF's propane-dehydrogenation process. . . . N
 Propane dehydrogenation: Propylene rides high on a PP boom (table). . . . N
 Quantum Chemical: A new name, a new commitment to chemicals (chart). . . . N

Propylene

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 Propylene rides high on a PP boom (table). . . . N
 Shell Chemical — ammonia, propylene, and solvents: excerpt from Chapter 2 of Petrochemicals: The Rise of an Industry by Peter H. Spitz. . . . N

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Arco Chemical buys into Taiwan propylene oxide. . . . N
 Arco Chemical takes an independent stance (chart & table). . . . N
 Arco's PO/TBA plant in France beats a deadline. . . . W
 Dow will expand its propylene oxide capacity. . . . N

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EPIC: ITC will take up the process patent issue involving Amgen and Chugai. . . . N
 Genetically engineered proteins agreement between Genentech and Kabi-Gen. . . . N
 Japanese research center for peptides and proteins research. . . . N
 Ophthalmic drugs: agreement between Alcon Laboratories and Creative Bio-Molecules. . . . N
 TPA: Genentech files a suit against Abbott Laboratories over two TPA patents. . . . N
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A call for commitment to 'Responsible Care'. Robert D. Kennedy — Other views. . . . N
 CEFIC chief, Günther Metz, outlines key aims. . . . N
 CMA offers ways to polish the industry's image. . . . N
 Ciba-Geigy wood support in Toms River for plant conversion. . . . N
 Laporte donates a rose window to St. Albans Cathedral to celebrate its own 100th anniversary. . . . N
 Pulp Chemicals Assn. — U.S. naval stores get a boost (charts). . . . N

Pulp & Paper

Carrageenans move from the sea to the paper mill. . . . N
 Chile will get a major pulp plant. . . . N
 Dioxin: U.S. paper industry studies a dioxin threat. . . . N
 EPA joins the paper industry for a dioxin study. . . . N

Dow's hydrogen peroxide bleaching system for mechanical pulps. . . . N
 Forecast 1988 (charts & tables). . . . N
 Part I: In the U.S., bright prospects overshadow uncertainties. . . . N
 ICI's digital paper stores data 'cheaper'. . . . N
 Kenaf: A cheaper pulp for brighter U.S. newsprint. . . . N
 Paper chemicals: C-H and Westcoast Transmission will join forces. . . . N
 Paper chemicals: Chemicals alter their roles in papermaking (chart & table). . . . N
 Prices: Raw material costs squeeze rayon makers (chart). . . . N
 Record paper output in March. . . . N
 U.S. paper industry enjoys healthy market conditions. . . . N
 Purchasing — Pentagon is sued for its buying policy because of blanket waivers of the "Buy American" provisions. . . . N

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Center for Intelligent Manufacturing passes NSF's review. . . . N
 New class of antivirals. . . . N

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Automated system, MabLab, purifies monoclonals. . . . N
 Hollow-fiber membranes for the continuous separation of waste products from cell cultures. . . . N
 Pyruvate — "Natural" antidote for hydrogen sulfide poisoning. . . . N

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Quicklime — Quicklime as a possible substitute for caustic soda. . . . N

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Conrail gets low grades on handling hazmat (map). . . . N
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 ICC wants to duck some rail rate cases. N
 Norfolk Southern adds second kaolin train. . . . W
 Safety is lax, unions charge. . . . N
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 Reactors — Microbial detoxification at the source: controlled reactor systems — NCS/Duke approach. . . . N

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 Hydrogen fluoride use in petroleum refining may be limited in L.A.: Which catalyst for alkylation? . . . N
 Catalytic FCC catalyst: Refining a solution to gasoline octanes. . . . N
 Overseas investment in U.S. refining industry grows. . . . N
 Refinery gases: A quick source of ethylene (table). . . . N
 Spain may restructure refineries. . . . W
 Rensselaer Polytechnic Institute — Polymer research centers: Can U.S. polymer research keep up? (table). . . . N

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Adhesives and sealants: Stronger than ever — report (charts). . . . N
 R&D for tomorrow's adhesives and sealants. . . . N
 Advanced materials: Better things for better living . . . through chemistry — Viewpoint. . . . N
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 Air Products launches a lab for product development at Pace, Fla. complex. W
 Aquanatics's O₂ extraction process: Getting oxygen out of air and water. . . . N
 Bayer's big U.S. investment: Miles Research Center opened (chart). . . . N
 Biomass to adhesives process: R&D partners wanted. . . . N

Salem Counties Against Toxins — Du Pont plan to build chemical waste incinerator at Deepwater, N.J. stirs vocal opposition	May 11	14	ISI markets gain, soap goes upscale	Jan 20	52	Laporte makes acquisitions — W	Feb 17	21
Sales Ass'n. of the Chemical Industry — Telemarketing rings up more chemical sales: Canavan comments	June 8	32	Soap & Detergents Assn. — From soap to nuts with SDA at Boca — Viewpoints I Feb 10-3, II	Feb 17	3	Realizing specialties' potential: CMRA meeting (table)	Mar 2	9
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Sanitizers — Pool sanitizers have record year	Apr 13	25	Society of Automotive Engineers — Fiero bows out, but auto plastics push on	Mar 16	16	Spitz, Peter H., <i>Petrochemicals: The Rise of an Industry</i> — excerpt from Chapter 2	Jan 20	68
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Al-Jubail Fertilizer protests EC decision on urea	Mar 23	36	Society of the Plastics Industry			Standardization		
Exports of petrochemical products pass EC ceilings	Mar 2	33	Adhesives and sealants report (charts)	Mar 16	28	The Enterprise show links computer systems (diagram)	June 22	28
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Scotland			Plastics recycling: SPI codes plastics for recycling (diagram)	Apr 20	14	Microbial detoxification at the source	Feb 3	30
BP Chemicals plans LLDPE plant at Grangemouth	Feb 10	14	Plastic resin sales lag in January	Apr 27	35	Superconductor current-carrying capacities jump	May 25	16
Exxon will increase ethylene capacity at Mossburn	Feb 17	28	Soda Ash			Starch — Creamier instant starches	June 1	58
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Another rousing year ahead	Mar 16	28	Sodium Bicarbonate			Storage		
R&D for tomorrow's adhesives and sealants	Mar 16	44	Bicarbonate gets the gases out of the stacks: CRS Sirrine and Industrial Resources joint venture in nahcolite technology	Apr 13	38	Ashtand oil spill: After the Ashtand spill, more regulations?	Jan 6-13	19
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Separation			Solar Power	May 11	7	Structural Plastics Conference — Pumping up structural foams	Apr 20	12
L'Air Liquide and Du-Pont plant separations joint venture	Feb 10	5	A new direction for solar energy: chemical processing and waste treatment	June 22	10	Styrenes		
Hollow-fiber membranes for the continuous separation of waste products from cell cultures	Apr 20	37	Sandia process that converts solar energy into chemical energy successfully field-tested in Israel	Jan 6-13	22	Arco Chemical takes an independent stance (chart & table)	Mar 30	23
Kalsep: new separations know-how from BP	June 22	31	Solder — Lead-free solder for water pipes	Apr 13	34	Brazilian styrene and PS venture gets a green light	May 4	14
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Shipping			AECI capital spending plans for 1988 include chlorine capacity expansion	June 8	38	Cos-Mar plans styrene expansion	May 18	53
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Slanes — Silanes for CaCO ₃ surfaces	Feb 24	35	Spain	Apr 27	16	Superclaus process for sulfur recovery	May 4	43
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Croftfield Chemicals plans silica hydrogels plant; market for silica hydrogels is beer stabilizer market	May 4	17	Dow plans polyethylene plant at Tarragona	May 25	27	C-L-Land Westcoast Transmission team up in paper chemicals	Feb 24	27
Fumed silica will be made continuously by Degussa	May 11	17	Forecast 1988 (charts & tables) Part II: Outside the U.S., strong domestic demand provides moderate growth	Jan 27	20	Clean Air Act revisions: stringent cuts are set	Mar 9	40
Silicon Tetrachloride — Silicon tetrachloride from clay	Jan 6-13	58	Integration in resins sector	Jan 27	34	EPA will leave SO ₂ standard intact	Feb 17	66
Silicones			PET consumption soars	Mar 23	36	Sulfur Dioxide see also Air Pollution: Desulfurization		
Automotive products: GE's under-the-hood silicones	Mar 30	33	Refining companies may be restructured	Mar 23	15	Sulfuric Acid		
GE and UC join in a silicone venture	May 25	5	Respot activity	Apr 20	54	C-L-Land Westcoast Transmission team up in paper chemicals	Feb 24	27
Shin-Care Products — Fomblin-based products: An industrial lube doubles in skin care (table)	Mar 30	33	UCB strengthens its position in Spain	Mar 9	38	Prices	Feb 3	27
Soap			Specialty Chemicals			Sunscreen — Fomblin-based products: An industrial lube doubles in skin care (table)	Mar 23	33
Colgate and Henkel will split ownership of L'Esieur-Cottell	May 18	5	Amur's new unit targets specialties: Climax Performance Chemicals	Mar 9	27	Superconductor Applications Assn. — International Superconductor Applications Convention: A superconductor star is born	Feb 24	13
From soap to nuts with SDA at Boca — Viewpoints I Feb 10-3, II	Feb 17	3	Armand capitalizes on differences	Mar 16	77	Superconductivity		
Soaps and detergents — more punch in the package — report (charts)	Jan 20	28	BASF seeks a specialties plant site in the heartland	May 4	5	Bismuth-based compounds: A superconductor star is born	Feb 24	13
Reshaping a \$10 billion industry	Jan 20	28	CSMA's past is more than prologue: How U.S.-based specialty chemicals businesses have changed hands recently (chart & table)	Apr 27	30	DOE plows \$2.7 million into superconductivity R&D	May 11	17
Tailoring new materials for the market	Jan 20	36	Letter	June 1	3	European cooperation in superconductor development	Apr 6	49
Phosphates tough out a shrinking market	Jan 20	44	Exxon's Callaway Chemical's specialty chemicals plant will serve the pulp and paper industry	Mar 16	91	Japan's superconductor research wins funding	Feb 3	19
The new multi-functionality boom	Jan 20	48	Falmouth Associates will study the market for coupling agents	June 1	61	"Meissner motor" — superconductors propel an electrical motor	Jan 27	33
			Gurli-Heberlein seeks control of Essex's specialties	June 8	12			

Perkin-Elmer turns the processing heat down: McLaughlin reports low fabrication temperatures	May 18	16	Approval of the Canadian trade pact moves nearer	May 25	42	West German textile sales lose ground	N	Mar 30	29
Powdered ceramiclike material from Grace	Jan 20	27	Taxation			Thailand — PVC joint venture	N	June 29	15
Sumitomo homium-based film: New in superconductors	Jan 20	27	Deferred tax reporting: Tallying the new accounting rules — FASB rules	May 18	44	Thermoplastics			
SUNY process makes superconductors that may be used in computers: Now, a cooler thin-film process	Apr 27	15	Ethanol: Ohio tax breaks must be open to all	June 8	40	Auto alloys bond with paint	NP	June 1	58
Superactivity in superconductivity: Cambridge Conference	Feb 3	8	Gasoline tax: Will higher oil consumption mean a gasoline tax and more tax changes	May 11	40	Du Pont and Allied-Signal settle patent suits	N	Jan 6-13	5
Superconducting Super Collider: final seven contenders selection comes under fire	Jan 27	48	N.J. tax to clean up toxic waste sites: High court won't order a tax refund	June 29	80	Mobay develops thermoplastic PC/PET resin blends, Makrolon	W	Jan 6-13	21
Procrastination may win the day for Super Collider	Mar 2	48	Oil industry campaigns to win tax incentives, basing its case on U.S.-Canada trade pact	Apr 6	66	Plastics producers display their wares at the NPE	N	June 29	6
Superconductor current-carrying capacities jump	May 25	16	VAT: Europe lifts the barriers to an integrated market	Mar 2	48	Rubber report: The changing shape of the rubber market (charts & tables)	N	Apr 20	18
Thallium-based superconducting films show promise	May 18	47	Technical University of Berlin — Freeze drying of ceramics	June 1	52	Spain: Repsol plant at Santander to double capacity	N	Apr 20	54
Superoxide Dismutase — BioTechnology General's genetic route to superoxide dismutase	May 11	17	Technical University of Denmark — "Suicide genes": making bugs that self-destruct	Feb 17	42	SFC conference: Pumping up structural foams	N	Apr 20	12
Suppliers of Advanced Composite Materials Assn. — Test methods for carbon fibers being developed	Apr 20	7	Technology	May 11	39	TPE: Dow and Exxon form joint venture	N	June 29	5
Surfactants			Cooperative research and technology strategies: In relentless pursuit of acquired technology	Mar 9	13	Thin Film			
Colombian joint venture	May 4	17	The ninth ninth wave — Viewpoint	Mar 30	3	Du Pont's Electronics Dept. acquires Honeywell's TFM: rights for micro-electronic packaging	N	Feb 17	13
Soaps and detergents — more punch in the package — report (charts)	Jan 20	28	SDI high-tech spinoffs	June 8	9	SUNY process makes superconductors that may be used in computers: Now, a cooler thin-film process	N	Apr 27	15
Sweden — Nordic chemical makers adapt to an international climate — report (table)	Apr 13	18	Teflon			Superconductivity: The promise of thallium-based superconducting films	N	May 18	47
Swedish Chemical Industries Assn. — Nordic chemical makers adapt to an international climate — report (table)	Apr 13	18	Du Pont celebrates R&D, past and future	Jan 20	8	Tires			
Sweeteners			Du Pont's Teflon toughs it out: company wins round in fight against alleged PTFE dumping (table)	Jan 20	16	Ethylene glycol-based solution automatically seals tire punctures	W	Jan 27	18
Aspartame: FDA approves aspartame for new product categories	June 15	5	Tel Aviv University — Antibiotic TA fights gum disease	Apr 13	34	Firestone and Bridgestone join in joint venture	N	Feb 24	5
Brazil's stavia courts bottlers	June 22	9	Telemarketing — Telemarketing rings up more chemical sales	June 8	32	Pirelli launches a bid for Firestone	N	Mar 16	5
NutraSweet: EC inquiry alters NutraSweet contracts	Mar 2	33	Terephthalic Acid — ICI will increase capacity	Mar 16	91	Firestone agrees to merge with Bridgestone	N	Mar 23	5
Tate & Lyle makes an offer for Staley	Apr 27	5	Terminals — Importing ethylene to where?	Feb 3	12	BF Goodrich tires of tires: 50% stake in Uniroyal-Goodrich Tire to be sold	N	Jan 6-13	13
Staley Continental rejects offer	May 11	8	Tertiary Butyl Alcohol			Japanese tire venture for Michelin, Michelin Okamoto Tire	N	June 1	25
SEC befriends a takeover suit	May 25	5	Arco Chemical takes an independent stance (chart & table)	Mar 30	23	Pirelli acquires Armstrong Tire: Pirelli likes its second choice	N	Apr 27	13
Tate & Lyle wins Staley Continental	May 25	5	Arco's PO/TBA plant in France beats a deadline	June 8	16	Tire and rubber labor talks	N	May 25	5
Swimming Pool Chemicals — Sanitizers and ancillary chemicals have record year	Apr 13	25	Testing			Titanium Dioxide			
Switzerland — Forecast 1988 (charts & tables) Part II: Outside the U.S., strong domestic demand provides moderate growth	Jan 27	20	AIDS blood test: SKBL's Hivagen	Mar 2	36	EPA wants to give TiO ₂ a break	N	Mar 2	48
Synergists — Antioxidant synergist	Jan 6-13	58	AIDS: Du Pont will market the first automated AIDS test	Apr 27	16	EPA delists titanium dioxide	N	June 22	40
Synthetic Organic Chemical Manufacturers Assn.			Allergy tests: Johns Hopkins working to develop in vitro allergy tests	Apr 13	34	Kemira expands in TiO ₂	N	Feb 10	14
Clean Air Act revision study: The "crippled" costs of Clean Air compliance	June 29	8	Blood test: Chron finds virus that causes hepatitis non-A, non-B and viral anti-cloned	May 18	78	Toiletries — Kao of Japan buys Andrew Jergens	N	Apr 27	5
OSHA's PEL Project: chemicals cheer as OSHA tightens rules	Mar 2	40	Du Pont introduces a rapid test for herpes	May 4	43	Toluene Diisocyanate			
Water treatment report	May 18	31	Enzo Biochem's test for cytomegalovirus gets FDA approval	May 4	43	BASF ups capacity at Geismar, La.	W	Jan 20	23
Taiwan			Field tests			The pace quickens for urethane intermediates (table)	N	Mar 9	30
Arco buys into Taiwan propylene oxide	Feb 3	5	BioTechnica gets EPA approval to field-test bacteria for use on alfalfa	Mar 23	16	Perfect prepolymers	N	Jan 6-13	58
Ethylene: A warning on ethylene capacity, the big buildup in Far East ethylene derivatives (tables)	Apr 6	8	Cancels, genetically engineered to tolerate Roundup herbicide, will get a field test	May 25	16	Prices	N	Feb 24	36
Tanks			Corn bioinsecticide heads for the fields	June 1	61	Sweden's Nobel will deliver TDI plants to China	N	June 1	25
Ashland oil spill: After the Ashland spill, more regulations?	Jan 6-13	19	Crop Genetics field test for corn pesticide moves ahead	May 11	40	Toxics — AI system, 313 advisor, from Du Pont, helps meet toxic chemical inventory requirements	N	Mar 2	36
Ashland Oil sets up dial-a-claim for Pittsburgh spill	Jan 27	5	Engineered microbe is monitored in soil: Clemson U. testing Monsanto's P. fluorescens	Feb 24	16	Trade Secrets			
An oil spill may spur new storage rules	Feb 3	28	International working group: An easier road for biotech field tests	May 4	50	Company secrets may be less safe with OSHA through job safety inspecting	N	May 11	40
Surprises dredged up from the spill: officials investigating VOC that may have been dumped illegally	Mar 9	9	OTA foresees quicker handling of biotech field tests	May 11	40	Genentech sues Invitron, Monsanto and Searle	N	Feb 17	5
Ashland Oil tank collapse: results of Battelle investigation	June 8	28	PGS launches a major program of field tests of modified plants	June 22	16	Rohm and Haas wins trade secrets case involving Rhoplex AC-64 paint emulsion	W	Apr 6	16
Tariffs			Rabies vaccine to immunize wildlife: trials sought	May 18	47	Trademarks & Tradenames			
Customs code faces change: Harmonized Code	Jan 6-13	16	Laboratory testing: SmithKline's acquisition of International Clinical Laboratories makes SmithKline first in market	Apr 13	5	"Gray market" imports: Supreme Court can't decide	N	Mar 16	102
— Correction	Feb 10	12	NDE: Better tests for materials' quality NIH will close a testing loophole, guidelines will include foreign tests of gene-spliced products	Feb 10	34	"Gray-market imports": U.S. trademark owners seeking to bar imports of foreign-made goods carrying the same trademark win only a minor victory	N	June 8	5
EC withdraws South Korea's tariff advantages	Jan 6-13	49	Polygraphs: Congress moves toward restricting polygraphs	Feb 10	10	A push for trademark reform	N	May 18	9
Trade bill			The needle jumps for a polygraph ban	Feb 24	40	Trademark law: Business supports a change	N	Mar 23	40
Congress will increase patent protection	Apr 6	66	SmithKline bids for International Clinical Laboratories, lab testing business	Mar 16	102	Training — DSM's Starnicarban will establish a training center in Bangladesh	N	June 1	25
The trade bill finds favor with the CPI	Apr 13	9	Texas — Houston woes Far East companies	Mar 30	5	Transportation			
A trade bill that may get vetoed	Apr 27	48	Texas Engineering Experiment Station — 1988 grade: The welcome mat is out (table)	Jan 20	24	CMA wants to set up a code of practice to promote transportation safety	N	June 15	5
On an alternate	May 25	42	Taxites	May 25	6	Regulation: Holding the line on deregulation	N	Feb 3	40
Chemical makers call for an adjusted trade bill	June 1	6	"Breathable" clothing made with Micro-Tec: porous, fluoropolymer fabric	Feb 24	35	Trucks: New trucking rules emphasize safety	N	Feb 10	84
Mixed outlook for a new trade bill	June 15	42	AS \$1 billion textile chemicals and resins market	Mar 9	26	Trucks: Trends in trucks boost plastics (chart)	N	Feb 10	8
U.S.-Canada free trade pact						Truck dereg is good for you, say FTC and ICC	N	June 1	70
Antitrust laws may replace antidumping laws	Feb 3	27				Turkey — Turkey rolls out a magic carpet of chemicals: Industrial exhibition in London	N	May 11	21
U.S.-Canada trade pact raises more hackles	Mar 2	48							

U			University of Caen — Biometh as a component in superconductors			Feb 3	9	Facing the future in light of the past. Patrick P. McCurdy			Feb 3	3
Ultrasounds — Delivery of transdermal drugs using ultrasound			Apr 27	16	University of California — Center for Robotic Systems in Microelectronics fails NSF's review	Apr 13	15	Petrochemicals: Second to none. Patrick P. McCurdy			Jan 20	3
United Nations Environment Program			University of Connecticut — Polymer research centers: Can U.S. polymer research keep up? (table)			Jan 6-13	52	Vinyl			Mar 2	16
In Europe, environment programs stay healthy			University of Delaware			Apr 13	15	Gloves: AID5 years boost thin gloves			May 11	20
Wastes seek ways across borders: UN agreement on transboundary movement of hazardous waste is near			Feb 24	25	Center for Composites Manufacturing Science and Engineering fails NSF's review	Feb 10	34	West European vinyl manufacturers unite			Mar 23	32
United Nations Food and Agriculture Organization — Dieldrin bans embitter the days of the locust: controversy over the use of the pesticide in North Africa			Apr 13	14	NDE techniques: Blake uses a robot to inspect composite structures	June 22	10	Vinyl Chloride — Prices Jan 6-13—26			Feb 3	18
United Shareholders Assn.			Feb 10	8	University of Houston			Virginia Polytechnic Institute			Feb 10	34
Group backing efforts to convince Congress to pass federal legislation that would preempt state antitakeover laws			Mar 23	29	A new direction for solar energy	Feb 3	8	Model for composite behavior			Jan 6-13	52
Pickens, Jr. comments on takeover laws			May 11	17	Superconductor: new compound	May 18	16	Polymer research centers: Can U.S. polymer research keep up? (table)			Jan 6-13	58
U.S. Air Force — Plastic media blasting: A nontoxic way to strip paints			Mar 16	84	Texas Center for Superconductivity: Chu discusses Peltier-Etner's low fabrication temperature	Mar 23	16	Vitamins			Jan 27	33
U.S. Army			Mar 2	48	University of Illinois's Biotechnology Center — Biotech consortium sets its sights on fermentation	June 15	17	B ₁₂ : A new route to vitamin B ₁₂			Mar 2	36
Chemical weapons are for burning			June 8	10	Chromatographic analysis for crude oil	Apr 13	15	Microbes for vitamin production: Bio-Technica and Hoffmann-La Roche team up			Mar 2	40
Chemical weapons will be incinerated on site			Mar 30	30	University of Massachusetts — Polymer research centers: Can U.S. polymer research keep up? (table)	Jan 6-13	52				Mar 2	48
SDI spinoff product, silicon nitride, may be useful in protective gloves			Jan 6-13	16	University of Michigan			W			Mar 2	9
U.S. Bureau of Mines — Rising caustic prices are good news for soda ash (chart)			Feb 10	12	Brazilian auto parts maker seeks a U.S. R&D base	Feb 17	23	Wake Forest Univ., Bowman Gray School of Medicine — Mack comments on hydrogen sulfide poisoning			Jan 27	44
U.S. Customs Service — Customs code faces changes: Harmonized Code			Mar 23	28	Composites sail on and upward (table)	Feb 10	11	Walker, K. Graham, president and COO for Dexter: Walker charts a new course at Dexter			June 8	18
— Correction			Mar 23	16	Method of removing virus cells from blood using immobilized target cells	June 15	17	Warehousing — Plastics move into the warehouse			May 4	46
U.S. Dept. of Agriculture			Feb 24	16	Positron transmission microscope: A new view of reactions	Jan 27	33	Washington/Baltimore Regional Assn. — Baltimore-Washington is a new biotech hub: major centers in the U.S.			June 1	61
Biotech consortium sets its sights on fermentation			Mar 23	28	Trends in trucks boost plastics (chart)	Feb 10	8	Washington, George Univ. — Tochin comments on non-U.S. investment in U.S. companies			Mar 16	13
Fungus selectively knocks out jimsonweed			June 22	40	University of Minnesota — Nachtsheim ranks R&D/Discover No. 1 in a comparison of 11 experimental design software packages	Mar 2	25	Waste Disposal			Mar 2	9
Lipase hydrolysis: Not promising for enzymatic fat splitting			Mar 16	102	University of Mississippi Medical Center — The search for "natural" antidotes for hydrogen sulfide, cyanide poisoning	Jan 27	44	Ashland spill: Surprises dredged up from the Ashland spill: officials investigating VOC that may have been dumped illegally			Mar 2	9
U.S. Dept. of Defense			June 8	9	University of Nebraska — Videover comments on NIH testing guidelines	Feb 10	10	BASF tangles with Dutch authorities over dumping of herbicide in Rhine River			Apr 27	29
Federal cleanup of facilities is lagging			June 29	80	University of Wisconsin			Biotechnology wastes: EPA will ask questionnaire on wastes			Jan 27	48
Metric system: DOD opts for the metric system			Feb 10	40	Combating cholesterol via enzyme research	June 1	42	California's Proposition 65: The industry and lawyers get set for Proposition 65			Feb 10	6
SDI high-tech spinoffs			May 4	50	New class of antiviral	June 15	17	California's Proposition 65: Off to a bumpy start			Mar 2	14
U.S. Dept. of Energy			June 22	40	A slick new way to recover gold from scrap	June 8	31	CMA survey shows a drop in waste generated			June 15	42
Acid rain legislation: DOE warns against hasty acid rain controls			Apr 27	35	University of Wyoming — Portable contaminants monitoring system	Mar 23	16	Ciba-Geigy indicted again in N.J. over unlawful disposal of hazardous waste from Toms River plant			Feb 24	5
Clean coal technology: DOE sets specs for its clean coal technology project			Apr 13	39	University of Zurich's Institute for Inorganic Chemistry — A new direction for solar energy	June 22	10	Ciba-Geigy woos support in Toms River Earthequake hazards: Making waste sites seismically safe (map)			Apr 20	9
Clean-coal technology: DOE is accused of too much patience on clean coal			Apr 13	45	Urea			EniChem caprolactam unit at Manfredonia, Italy faces closure again			Feb 10	22
Federal cleanup of facilities is lagging			June 22	40	Oil restarts its Lake Charles, La. urea plant	June 1	43	EPA proposes that more wastes will need treatment before dumping			May 25	42
Oak Ridge lab works to clean up federal wastes: ORNL hazardous waste projects across the U.S. (map)			Apr 27	35	Saudi Arabia contests an EC decision on urea	Mar 23	36	Europe: The burning issue of waste in Europe			June 15	19
Oil imports will rise, but prices won't			Apr 13	39	Shipments, inventories, prices	June 1	43	Florida: Less waste may kill Florida plant plan			Apr 6	61
Overseas investment in U.S. refining industry grows: EIA report			Apr 13	45	Unocal will phase out Brea, Calif. plant	June 1	21	Great Lakes cleanup falters			Apr 13	13
Pulse combustion turns to coal-fired boilers			June 22	10	Urethane			Hazardous waste cleanup: Florio to EPA — Step up cleanup			Jan 27	12
Solar Energy Research Institute: Making motor fuels from microalgae — Microbial Products project			Jan 27	48	BASF Corp. to buy urethane business of Flexible Products	June 8	16	Hazardous wastes: Oak Ridge lab works to clean up federal wastes: ORNL hazardous waste projects across the U.S. (map)			June 1	63
Solar research: A new direction for solar energy — chemical processing and waste treatment			Mar 2	48	Distilled Spirits Council of America plan will limit amounts of urethane in whiskey products	Jan 6-13	21	Land disposal: EPA widens a land ban to include more chemicals			Apr 6	66
Superconducting Super Collider: final seven contenders selection comes under fire			May 11	17	Montedison's acquisition of French producer STAC expands its position in urethanes	Mar 9	38	Love Canal ruling to be appealed by OxyChem			Mar 2	15
Procastination may win the day for Super Collider			Feb 10	24	The pace quickens for urethane intermediates (table)	Mar 9	30	Microbial detoxification at the source: NCS/Duke approach			Feb 3	30
U.S. Dept. of Transportation			Mar 23	40	V			Municipal solid waste: EPA looks for new approaches to municipal waste			May 4	50
Truck "black boxes": DOT would allow, but not order, truck "black boxes"			Mar 16	102	VanBuskirk, John, Phillips Petroleum's Plastics Div. head, corporate v.p.: Phillips's VanBuskirk finds work a joy	May 25	29	OECD's Paris agenda			Feb 3	16
U.S. Geological Service — Hydrocarbon reserve estimates challenged			Feb 24	36	Venezuela — Hydrogen peroxide plant	June 22	36	Oil and gas drilling wastes: EPA eases regulation			Jan 6-13	64
U.S. International Trade Comm. — Organic chemical output data goes electronic			June 8	10	Viewpoint			Plastics: The push to put plastics recycling in high gear			Mar 9	28
U.S. Navy — Office of Naval Research working on diamond-crystal-coating technology — SDI spinoff			Apr 20	15	Better things for better living... through chemistry. Patrick P. McCurdy	Feb 24	2	The lengthening reach of legislation: PCBs: Texas Eastern will pay big for PCB cleanup			June 15	42
U.S. Patent and Trademark Office			May 18	9	— Letters	Mar 9	3	Superfund			Feb 24	28
The biotech patent track may be too fast			May 11	8	Equipping the world chemical laboratory. Patrick P. McCurdy	Feb 17	3	EPA and industry push for new Superfund solutions: SITE program			Apr 27	3
Made-to-order animals win patent approval: Harvard's mouse wins first U.S. patent for an animal			May 18	9	From soap to nuts with SDA at Boca. Patrick P. McCurdy I Feb 10-3, II	Mar 23	3	— Letter			Mar 2	36
A push for trademark reform			Jan 6-13	52	Making it happen by working with people. Patrick P. McCurdy	Apr 13	3	Du Pont's AI system 313 advisor, helps meet toxic chemical inventory requirements			Mar 2	40
U.S. Securities & Exchange Commission			May 11	7	Needed: Some of that old-time literacy. Patrick P. McCurdy	Jan 27	2	Title III: Industry prepares for Title III			Mar 2	48
Tate & Lyke's efforts to acquire Staley Continental befriended by SEC in fight against Delaware's takeover law			May 11	7	The ninth ninth wave. Patrick P. McCurdy	Feb 24	2	Title III: EPA wants to give TIO ₂ a break			Mar 9	17
U.S. Trademark Assn. — A push for trademark reform					Petrochemicals: A hail of fame. Patrick P. McCurdy			Title III: ITS Technologies' software for Title III compliance				
University of Akron — Polymer research centers: Can U.S. polymer research keep up? (table)					— Letter							
University of Bielefeld — Microemulsion system for dealing with waste												

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Airvol trademark will be used for PVA resins and warp size blends W	Feb 10	12	Catalysts '88 report	June 29	20	Pact with APS for Microsponge technology (table)	Mar 9	16
Biological processes: EPA and industry push for new Superfund solutions	Feb 24	28	DARPA contract to develop a superconducting wire	Feb 24	15	Robins accepts Sanofi's bid	Jan 6-13	9
Catalysts '88 report	June 29	58	Employee stock saving plan: An over-sight costs millions N	Mar 30	5	Robins shareholders endorse a takeover proposal from AHP N	Jan 20	7
Chemicals alter their roles in paper-making (chart & table)	Apr 20	45	Grace's French subsidiary acquires UAF Chemicals W	Jan 6-13	21	AHP outbids its rivals for Robins	Jan 27	5
Deferred tax reporting: Tying the new accounting rules — FASB rules	May 18	44	Institutional investors find a new voice (table)	Apr 20	41	Robins merger agreement can proceed when Robins deposits \$100 million into trust fund for Dalkon Shield claimants N	Mar 23	5
Filters that won't shed NP	Mar 30	33	Maintenance management systems: New technology pulls the pieces together (charts)	Mar 9	20	Dalkon Shield claimants urged to reject a Chapter II plan N	May 11	5
Gas producers permeate the membrane sector: alliance with Akzo	June 15	37	Nylon film shines sparks: flame-retardant packaging NP	May 4	44	American Natural Soda Ash Corp. — Rising caustic prices are good news for soda ash (chart)	Mar 30	30
Gas supply agreement with Motorola: Turkey gas supply from production to point of use (chart)	May 11	9	Patent suits with Du Pont settled N	Jan 6-13	5	American Standard — Black & Decker takeover: A burst of takeover laws sparks many challenges (map)	Mar 23	29
Gases prices N	May 25	31	Poses, Frederic M., president of Engineered Materials unit: Allied-Signal's 'new-generation leader'	June 29	73	American Synthetic Rubber — Rubber report (charts & tables)	Apr 20	18
Hydrogen peroxide process: an electrolytic route	Jan 27	36	Tokyo's exchange lures U.S. chemical listings	Apr 6	46	Thermostat commodity synthetic rubber producers in the U.S.	Apr 20	23
Laboratory for production at Pace, Fla. complex W	Feb 10	12	UOP film shines sparks: flame-retardant packaging NP	May 11	14	Freeze-dried cultures — Petroform's Biolect ECT for cleaning circuit boards	Jan 20	8
Lawsuit against Orange County, N.C. for using waste-water treatment technology without a license W	Feb 10	12	UOP joint venture: Carbide, Allied join in catalysts	Apr 13	11	Sematech, electronics research consortium, gets federal funding	Jan 20	21
Maintenance management systems: New technology pulls the pieces together (charts)	Mar 9	20	Which catalyst for alkylation? Hydrogen fluoride use in petroleum refining may be limited in L.A.	Feb 24	11	American Type Culture Collection — Freeze-dried cultures	Feb 17	43
A space age system for little plants	Mar 9	23	Allstate Insurance — States push hard on liability charges	Mar 30	40	Amorpol Synpol — Rubber report (charts & tables)	Apr 20	18
Outlook for 1988: Wyant — Pleased with the industry's stability	May 11	6	Alpet — Turkey rolls out a magic carpet of chemicals	May 11	21	Thermostat commodity synthetic rubber producers in the U.S.	Apr 20	23
Oxygen and argon of ultra-high purity to be introduced	Feb 3	27	Alpha 1 Biomedicals — Viral Technologies sees under name	Jan 6-13	20	Amtek — Pfizer's metals business bought W	Jan 20	23
Oxygen for Dow W	Jan 27	18	Aluminum Co. of America — Alcoa, Tenn. restarts primary aluminum smelting	Jan 27	18	Amgen — How biotech stocks have fared (table)	Feb 3	8
PVA prices boosted in Canada N	May 18	53	Bauxite mining phaseout W	Feb 24	36	Interleukin-2 patent dispute with Cetus is settled N	Apr 13	5
Price increases N	Jan 6-13	26	Liquid sodium aluminate joint venture N	Feb 24	36	Process patent issue concerning EPO caustic soda are soaring	Apr 20	13
Ryan, Frank J., named new president	June 22	11	Alcoa-Coastal Chemicals — Liquid sodium aluminate joint venture N	Feb 24	36	Amoco Chemical — Composites sail on and upward: Xycron hybrid resins for bumper beams on Mazda 929 sedan	Feb 10	12
Sales and earnings: first-quarter '88	Apr 27	5	Alcoa of Australia — European prices for caustic soda are soaring	Apr 27	17	Cracker shutdown puts the squeeze on ethylene	Apr 13	25
Small lab for ceramic coatings development N	Mar 16	94	Alusuisse Italia — Italy: All roads lead to chemicals — report	May 25	23	Ethylene debottlenecking: Not enough ethylene around to go around	May 4	8
Telemarketing rings up more chemical sales	June 8	32	Alyeska Pipeline Service — TSCA lets EPA in the door rules court	Feb 10	40	Great Lakes cleanup falters: comments from Amoco	Apr 13	13
TDI perfect prepolymers NP	Jan 6-13	58	Alza — NDA for transdermal delivery of fentanyl	Feb 3	19	Institutional investors find a new voice (table)	Apr 20	41
Wins control of Oxyethylene N	Feb 17	59	Amaz — Chevron sells 15.5% stake in Amaz back to Amaz N	June 1	5	PP capacity: A European puzzle — PP table (chart & table)	Mar 23	-7
Airco Gases — Acquires Solox W	Mar 30	11	Amaz Performance Materials: Amaz's new unit targets specialties	Mar 9	27	Amoco Fabrics and Fibers — PP yarn production to be increased at Bainbridge, Ga? N	Jan 20	59
Airgas — Airgas is on a shopping spree to build a distribution network	Mar 30	11	Restructures its molymolden business; forms Climax Metals	Feb 17	5	Amoco Performance Products — Acquisition of Dartco's liquid-crystal polymer operation completed N	Apr 6	5
Permea distributor: Gas producers permeate the membrane sector	June 15	37	Amaz Specialty Metals — Acquires "substantial portion" of the assets of Humphrey Chemical N	Jan 20	5	Key players vie for a base in U.S. carbon fibers (charts)	Apr 20	6
Aiscandel — Energia e Industriale Argentina will take full control N	Jan 27	34	Amerace — FMC buys biotech venture and renames it BioSupport Materials Venture	June 1	21	Molded printed circuit boards: NEPCON West	Mar 2	12
Ajinomoto — Interleukin-2 patent: Cetus' Filtes complains about claims — Bio-tech patent track may be too fast N	June 8	40	Amerade Heat Shipping — U.S. Supreme Court to rule on controversy with Argentine government: Should U.S. courts go multinational? N	May 4	50	Plastics producers display their wares at the NPE: Xydac LCP resins	June 29	6
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 Eberstadt Fleming — Greetham comments on Bayer's new drug for stroke, Nimodipine
 Eco of Toronto — Degradable plastics joint venture with Polysar
 Ecogen — Biotechnology Dagger G nears approval
 Bioplastic genes agreement with EnChem
 Biotech consortium sets its sights on fermentation
 Pesticides report: Bioplastic genes
 Ecobab — Child-care programs: Kids get a vote of confidence from the CPI
 Ecosar Enterprises — Degradable plastics joint venture
 Ecova — Licenses technology for mobile incineration from Shiroc Infrared Systems
 Egyptian Petrochemical — Chlor-alkali plant
 Ekotem International — The burning issue of waste in Europe
 El Paso Acquisition — A second LBO for El Paso Products
 El Paso Holdings — A second LBO for El Paso Products
 El Paso Natural Gas — Final issues gas lease fight with El Paso
 El Paso Products — The ethylene market event everyone feared: Shell Oil's Norco refinery explosion
 LBO: A second LBO for El Paso Products
 Polypropylene prices
 Styrene prices
 Electric Power Research Institute — Bicarbonate gets the gas out of the stacks
 Elf Aquitaine — Alchemer see under name
 Puchal, Jacques appointed new director of chemicals
 Elf Aquitaine corrects the record
 Elite — Molded printed circuit boards: NEPCON West
 Eltech — EES Corp. see under name
 Emblem Europe — Joint venture will build nylon-6 film plant
 Emhart — Adhesives and sealants report
 Empresa Nacional de Petroquímica — Portugal's petrochemicals head for the private sector
 Energia e Industrias Aragonenses — Will take full control of Alconides
 Energy Conversion Devices — Hydride batteries charge up
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Engelhart — Catalysts '88 report
 Dutch catalyst plant planned
 FCC catalysts, new series, to be marketed
 Harrow/Fillit acquisition planned
 Jan 6-13-9
 Lead-free solder for water pipes
 Reorganizes its operating units
 Two businesses up for sale: microwave circuit operation and electronic scrap refining operation
 Engineering and Chemical Supplies — Acquired by Norsocem
 EnChem — Bioplastic genes agreement with Ecogen
 Catalysts '88 report
 EnChem puts its chips on R&D, joint ventures
 EVC is granted exemption from EC competition rules
 Europe lifts the barriers to an integrated market
 European prices for caustic soda are soaring
 Fluoride joint venture with Japan's Mitsubishi; Mitsui, new company, will be based in Milan
 Italy: All roads lead to chemicals — report (chart)
 Merger with Montedison discussed
 Montedison, ENI move closer
 Petrochemical feasibility study for China
 Plant biotechnology research contract with La Sapienza Univ.
 EnChem Agricoltura — Caprolactam unit at Manfredonia, Italy faces closure again
 Caprolactam plant at Manfredonia complex is back in business
 EnChem Fibre — Nylon-6 film plant joint venture
 EnChem Sintesa — Continuous process for fluorinated aromatics, uses diazotization step
 English, China Clays — Cyprus Minerals' calcium carbonate mine, reserves and mills bought
 Enron — PE makers keep a wary eye on rising ethylene prices (charts)
 ENI — EnChem, Montedison merger discussed
 Montedison, ENI move closer
 Italy: All roads lead to chemicals — report (chart)
 Soviet petrochemical complex gets green light
 Enterprise Companies — Propylene rides high on a PP boom; joint venture with Quest Energy to build splitter
 Enterprise Networking Event — The Enterprise show links computer systems (diagram)
 Enversone — Terra Vac in situ vacuum extraction process: EPA and industry push for new Superfund solutions
 Environmental Research Laboratory — "Suicide genes": Making bugs that self-destruct
 Environmental Systems — Chemical weapons are for burning
 Environmental Venture Fund — Ruckelshaus backs a venture capital fund
 Enzo Biochem — DNA probe for detection of cytomegalovirus
 Enzon — Files drug application for an enzyme to fight an immune disease
 Erbamont NV — Agreement with Baxter Travenol for U.S. distribution of anticancer drug
 Enucleating cancer drugs in liposomes: agreement with Liposome Technology
 Erdoschemie — PE marketing agreement with BP Chemicals
 Ergenics Power Systems — Hydride batteries charge up
 Essex Chemical — Gurt-Helberlein control of Essex's specialties
 Essex Chemical sues an unsolicited suitor
 Gurt-Helberlein raises its bid for Essex
 Rubber report (charts & tables)
 U.S. castable elastomers producers
 Stocks: How chemicals are rolling with the Oct. 19 punch (table)
 Esso Chemical Canada — Sales and earnings: first-quarter '88
 Estee Lauder — Pact with APS for Micro-sponge technology (table)
 Ethicon — Liposomal drugs come of clinical age (table)
 Ethyl — Bromine expansion
 Deferred tax reporting: Tallying the new accounting rules — FASB rules
 Importing ethylene to where?
 Rubber report (charts & tables)
 Thermoset specialty elastomers producers in the U.S.
 Sales and earnings: fourth-quarter '87, N
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European VII. — EC grants EVC exemption from EC competition rules. N
Expert in a Chip — Software to experiment with. N
Explosives Technologies — Explosives: Too much bang for the buck? (chart). N
Explosives Rio Tinto — Cepsa seeks refinery and petrochemical complex at Huelva. N
Export-Import Bank — FI fighting Esimbank decision to finance sale of phosphate mining equipment to Jordan. N
Excll — Laporte restructures and buys. N
Exxon Chemical — Alaskan NGL: Super Spike project would ship NGL from Alaskan North Slope to Pacific Rim markets. N
Amoco cracker shutdown puts the squeeze on ethylene. N
Belgium PE pilot plant contract to Uhde. N
Callaway Chemical see under name
Cogeneration project for Baytown, Tex. complex. N
Cort prohibits sale of some lubricants that Lubrizol alleges infringe on its patent. N
Ethylene capacity increase. N
Ethylene expansion: Not enough ethylene around to go around. N
Ethylene: Imports of liquid ethylene into the U.S. Gulf planned to alleviate shortage. N
Ethylene-propylene rubber expansion at Baton Rouge. N
Europe lifts the barriers to an integrated market. N
French subsidiary acquires fiber-reinforced plastics business from Arjomari. N
Institutional investors find a new voice (table). N
Licenses Mitsui Petrochemical's HDPE process. N
LDPE capacity boost at Meerhout, Belgium. N
PE makers keep wary eye on rising ethylene prices (charts). N
Polypropylene capacity expansion. N
R&D lab systems: A call for updating (charts). N
Rubber report (charts & tables). N
Thermoset commodity synthetic rubber producers in the U.S. N
Supreme Court won't order a N.J. tax refund. N
TPE venture with Dow. N
Exxon Chemical Americas — Ethylene prices. N
Exxon Chemical Belgium — Invests in polymers. N
Exxon Chemical Mediterranean — Acquires acrylates capacity from Italy's Sotchini. N
Italy: All roads lead to chemicals — report
Exxon Chemicals Ltd. — Ethylene capacity boost at Mossorran, Scotland. N
Eyang Chemical — Flocculant production comes to Korea. N

F

FMC Corp. — Bicarbonate gets the gases out of the stacks. N
Buys Amerace's biotech venture and renames it BioSupport Materials Venture. W
California's Proposition 65: The industry and lawyers get set for Proposition 65 Chlor-alkali price-fixing suit: six producers settle (chart). N
Edible coating made with carrageenan extends storage life of frozen pre-cooked meat, poultry and fish. N
Marine Colloids Div.: Carrageenans move from the sea to the paper mill. N
Pesticides report: U.S. ethyleneamines reflect consolidation (table). N
Soaps and detergents report. N
FFPE Chemical — Recycling process for antifreeze. N
Fahnestock — Kulu on Lilly's ulcer drug. N
Fairfield Associates — The changing shape of the rubber market — report (charts & tables). N
Falmouth Associates — Coupling agents: program to study the market and technology. N
Far-Best Corp. — Diversify will make acquisition. N
Federated Department Stores — Campeau takeover attempt: A burst of takeover laws sparks many challenges (map). N
Federchemica — Italy: All roads lead to chemicals — report (chart). N
Fermenta — Pesticides report: U.S. pesticide sales reflect consolidation (table). N
Ferro Corp. — Cataphote, bead division, sold to Glaverbel Group. W
Ferrosan — Akzo to acquire fine chemicals division. N

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<p>Mar 16 91</p> <p>June 29 13</p> <p>June 29 6</p> <p>May 4 17</p> <p>Mar 16 20</p> <p>Jan 6-13 20</p> <p>May 4 17</p> <p>Apr 6 55</p> <p>May 4 12</p> <p>Feb 24 23</p> <p>Feb 3 19</p> <p>Jan 27 33</p> <p>Feb 3 34</p> <p>Mar 9 16</p> <p>Apr 6 5</p> <p>Jan 6-13 5</p> <p>Jan 20 10</p> <p>Jan 27 5</p> <p>Feb 3 9</p> <p>May 4 26</p> <p>Mar 2 33</p> <p>Apr 20 9</p> <p>Apr 13 25</p>
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Honeywell — Du Pont acquires TFM rights	Feb 17	13	PP capacity: European puzzle — PP tabs (chart & table)	Mar 23	7	Mailinckrodt see under name		
The Enterprise show links computer systems (diagram)	June 22	26	Polyurethanes Group: Pumping up structural foams — SFC conference	Apr 20	12	Natural gas: Why natural gas prices have been rising	Jan 27	10
Hong Kong Oxygen — Hong Kong plant planned	Mar 30	29	Polyurethanes Group will move headquarters from Wilmington, Del. to West Deptford, N.J.	Jan 20	23	Sales and earnings: Fourth-quarter '87, N	Jan 27	5
Horizon Chemical — Tate & Lyle makes an offer for Star	Apr 20	9	Sales and earnings 1987	Mar 2	5	Stocks: How chemicals are rolling with the Oct. 19 punch (table)	Jan 27	6
Tate & Lyle wine Slaley	May 25	5	Terephthalic acid capacity to be increased	Mar 16	91	IMC Fertilizer Group — IMC launches IPO of half its interest	Feb 3	5
Houston, Colin A. & Associates — Soaps and detergents report	Jan 20	40	Volcker, Paul becomes nonexecutive director on the board — Correction	May 11	14	International Molasses — Protects merger agreement of Crompton & Knowles and Ingredient Technology	May 18	5
Huansheng International Power — Flue-gas desulfurization plants	Feb 24	16	ICI Advanced Materials — Fluoropolymer businesses combined	Mar 2	43	International Paper — Raw material costs squeeze rayon makers (chart)	May 18	62
Huber, J.M. Co. — Chemicals alter their roles in papermaking (chart & table)	Apr 20	45	ICI Americas — Agricultural Products Group reorganizes R&D	June 8	16	International Technologies — Making waste sites seismically safe (map)	Feb 10	22
Hubinger — Fuel ethanol facility at Kedicof, Iowa plant	Feb 3	18	Customs code faces change	Jan 6-13	16	Microbial detoxification at the source	Feb 3	30
Hughes Aircraft — Radar Systems Group's ACAPS system: For high-quality plotting, Hughes goes on line (diagram)	Jan 28	86	PTFE dumping: Du Pont wins round in fight against alleged dumping (table)	May 11	6	Interox — Hydrogen peroxide plant in Brazil	June 22	38
Hule — West Germany: The home market loses out to the U.S. — report (chart & tables)	June 15	22	Renames Polyvinyl Chemicals unit as ICI Resins U.S.	Jan 20	16	Laporte restructures and buys	Mar 2	14
Huls America — Consolidation of the chemicals and plastics businesses of Nucleon and the Dynamit Nobel of America Group of companies	Mar 16	5	Urethane intermediates: The pace quickens; capacity increases (table)	June 1	21	Interox America — Hydrogen peroxide supplier	Jan 27	36
Humphrey Chemical — Amac acquires "substantial portion" of assets	Jan 20	5	Volcker, Paul joins board of directors	Mar 9	30	Invacore — Partner with Aquanatics to develop an oxygen generator for home respirators	May 4	16
Huntman Chemical — "The ethylene market event" everyone feared: Shell Oil's Norco refinery explosion	May 18	8	ICI Electronics — Digital paper stores data "cheaper"	May 4	5	Investor Responsibility Research Center — A burst of takeover laws sparks many challenges (map)	Mar 23	29
Huntman Petrochemical — Styrene plant at Baton Rouge, La. expansion N Mar 23-32, N Apr 6-42	May 18	53	Molded boards: NEPCON West	Feb 24	12	Invitron — Genentech files trade secrets suit	Feb 17	5
Styrene prices	Feb 24	36	ICI Fluoropolymers — ICI combines its fluoropolymer businesses	Mar 2	12	Iomega — Optical disk products to be developed with ICI	Feb 24	12
Huntman Polypropylene — Polypropylene capacity will be boosted	June 1	43	ICI Paints — Automotive paints: ICI and Nippon join-paint forces	Mar 2	43	IRECO — Explosives: Too much bang for the buck? (chart)	June 22	33
Hydrilich — Anti-idiotypes: A second generation of monoclonals (table)	Feb 24	23	ICI Pharmaceuticals — Pharmaceutical investment: plans plant to produce Zoladex, a dissolvable implant treatment for prostate cancer	Mar 30	10	Iromer Chemie — Acquired by Morton Thiokol	Apr 20	16
Hydro-Québec — HydrogenAL, hydrogen production and liquefaction unit at Bécancour, Que.	June 1	21	Imperial Oil — Sales and earnings 1987	Apr 27	29	Iroquois Brands — Sells "certain assets" of its Chase Chemical encapsulating and tabletting operations to a management buyout	Mar 30	21
HydrogenAL — Hydrogen production and liquefaction at Bécancour, Que.	June 1	21	Imperial Oil — Sales and earnings 1987	Feb 10	14	Ishihara — Pesticide report: Non-U.S. companies' worldwide pesticide sales (table)	May 4	26
HydrogenAL — Hydrogen production and liquefaction at Bécancour, Que.	June 1	21	Indocor — The burning issue of waste in Europe	Mar 9	6	Isochem Resins — Rubber report (charts & table)	Apr 20	18
			Indian Petrochemicals, Ltd. — Du Pont is proposing a timely passage to India (table)	June 15	19	U.S. castable elastomers producers	Apr 20	28
			— Correction	Feb 3	32	Isomedia — Bans are stunting growth of irradiation	Jan 27	15
			Indocor — Adhesives and sealants report	Mar 9	14	Itabondet — Montedison will sell its 50% share	Mar 23	12
			Indolite Chemical — Soaps and detergents report	Mar 16	28			
			Indol — Rubber report (charts & tables)	Jan 20	42			
			U.S. castable elastomers producers	Apr 20	18			
			Industrial Chemical Laboratories — Sold to its president David Vivian	Apr 20	28			
ICF Technology — Computers in the CPI report	Apr 6	20	Industrial Resource — Nabisco technology joint venture with CRS Sirrine	May 11	15			
ITC — PE makers keep a wary eye on rising ethylene prices (charts)	Mar 16	6	Bicarbonate gets the gases out of the stacks			JGC — Contract for Australian ethylene and VCM complex	June 15	31
ITS Technologies — Software for Title III compliance	Mar 9	17	Inga Companhia de Desenvolvimento Industrial de Maringa — Brazil's steepest asbestos	Apr 13	38	JGC Engineers Australia — Contract for Australian ethylene and VCM complex	June 15	31
Idac — Anti-idiotypes — a second generation of monoclonals (table)	Feb 24	23	Ingenere Biotechnology — Biological nematode, Clonostol, okayed for market by EPA	June 22	9	JGR America — Deltadine Solution Elastomers, joint venture with Shell	Jan 6-13	26
Idemitsu Kosan — Computers in the CPI report	Apr 6	20	Ingenere Biotechnology — Biological nematode, Clonostol, okayed for market by EPA	Mar 30	22	Jessand ArtTech — Wet precipitates tackle incinerator stack gases (charts & table)	May 25	38
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Idrocrucci — Soviet petrochemical complex gets green light	Mar 23	5	Iniziativa Meta — Montedison aims to cut debts	May 18	5	Japan Uni-PET — Japanese PET makers rejoice	Mar 9	7
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Imclone Systems — Anti-idiotypes — a second generation of monoclonals (table)	Feb 24	23	Linde's members: Top and better?	June 15	37	Johnson Aloli Chemical Agent Disposal System — Chemical weapons are for burning	Mar 16	84
Immunes — Immunology Ventures, partnership, expands drug discovery research	May 25	16	Linde plunges deeper into membranes	June 8	29	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
Imperial Chemical Industries — Auto coatings venture with Du Pont	Mar 16	24	Institut Mérieux — Immunologists breathe new life into vaccines: AIDS vaccines in research and development (table)	June 1	61	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
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C-I-L: ICI offers to acquire the rest of C-I-L	Mar 9	5	Intercontinental Terminals — Importing ethylene to where?	Feb 24	35	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
C-I-L approves buyout by ICI	Apr 6	20	Intergraph — A suite of software to aid plant engineers	Feb 3	12	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
Computers in the CPI — report	Mar 23	36	International Business Machines — Almaden Research Center develops thallium-based superconducting films	Mar 2	34	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
EVG is granted exemption from EC competition rules	June 1	52	Computers in the CPI — report	May 18	47	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
Europe lifts the barriers to an integrated market	June 1	53	Sematech, electronics research consortium, gets federal funding	Apr 6	20	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
Hutchinson: Restructuring into powerful groups	Apr 13	5	Supercomputers begin to win the CPI over	Jan 20	21	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
Fiberite Composite Materials see under name	Mar 23	33	IBM Almaden Research Laboratory — Altered polymer rotates light	Mar 30	35	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
Fomblin-based products: An industrial lubricant	Apr 13	5	International Clinical Laboratories — Corning Glass Works will acquire company	June 8	10	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
Glyosphate patent accord with Monsanto opens up opportunities for herbicides	Feb 24	3	SmithKline Beecham — Acquired by SmithKline	Mar 16	5	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
Harvey-Jones, John (Former chairman of ICI): Shooting the rapids of change	Mar 2	3	International Data Corp. — Molecular computer graphics	Mar 30	5	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
Other views (excerpted from his book Making It Happen)	May 25	23	International Genetec — Engineered chimeric monoclonals research agreement with Eastman Pharmaceuticals	Apr 13	5	Johnson & Johnson — Contact lenses to throw away	Mar 23	12
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			Delatayne Solution Elastomers, new joint venture with JSR	June 15	9	CNS drug development partnership with Nova Pharmaceutical	June 1	61
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			Ultra-high-purity isoprene will be made at Deer Park, Tex.	Apr 13	25	A new direction for solar energy — chemical processing and waste treatment	June 22	10
			Unipol process: Korean licensee Honam Oil Refinery's PP plant has smooth startup	Apr 13	25	Solar Kinetics — Stretched-membrane modules: A new direction for solar energy	June 22	10
			Shell Chemical Canada — Sales and earnings 1987	Feb 10	14	Solidtech — Solidification and stabilization method: EPA and industry push for new Superfund solutions	Feb 24	28
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Apr 20 9
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May 25 5
June 1 25
Feb 17 6
Jan 20 75
Apr 13 18
Apr 13 22
Mar 16 72
Mar 23 7
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May 4 28
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Apr 27 29
Apr 6 20
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